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United States Patent [19]**Vesterinen**[11] **Patent Number:** **5,568,545**[45] **Date of Patent:** **Oct. 22, 1996**[54] **CENTRALIZED COMMAND SYSTEM FOR A TELECOMMUNICATIONS NETWORK**[75] **Inventor:** **Timo Vesterinen, Espoo, Finland**[73] **Assignee:** **Nokia Telecommunications Oy, Espoo, Finland**[21] **Appl. No.:** **387,708**[22] **PCT Filed:** **Aug. 12, 1993**[86] **PCT No.:** **PCT/FI93/00316**§ 371 Date: **Apr. 12, 1995**§ 102(e) Date: **Apr. 12, 1995**[87] **PCT Pub. No.:** **WO94/05123****PCT Pub. Date:** **Mar. 3, 1994**[30] **Foreign Application Priority Data**

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[51] **Int. Cl.⁶** **H04M 7/00; H04M 3/00**[52] **U.S. Cl.** **379/333; 379/219; 379/230; 379/269**[58] **Field of Search** **379/269, 333, 379/334, 335, 219, 220, 221, 229, 230**[56] **References Cited****U.S. PATENT DOCUMENTS**

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A centralized command system for a telecommunications network, in which system a central exchange of a telecommunications network and network elements, such as local concentrators, under its control form an entity which is controllable in a centralized manner from the central exchange by means of user interfaces of individual concentrators. The system includes a program command structure in which the command sequences required by each task and directed to the central exchange and/or one or more network elements are combined so as to form a single logical task entity, or macro, on the basis of which the system automatically initiates embedded terminal sessions with the necessary network elements and executes the commands necessary for performing the given task.

7 Claims, 1 Drawing Sheet